

L'Ecosistema **Quantum** Tech Aperto

Nathan Shammah, Unitary Fund

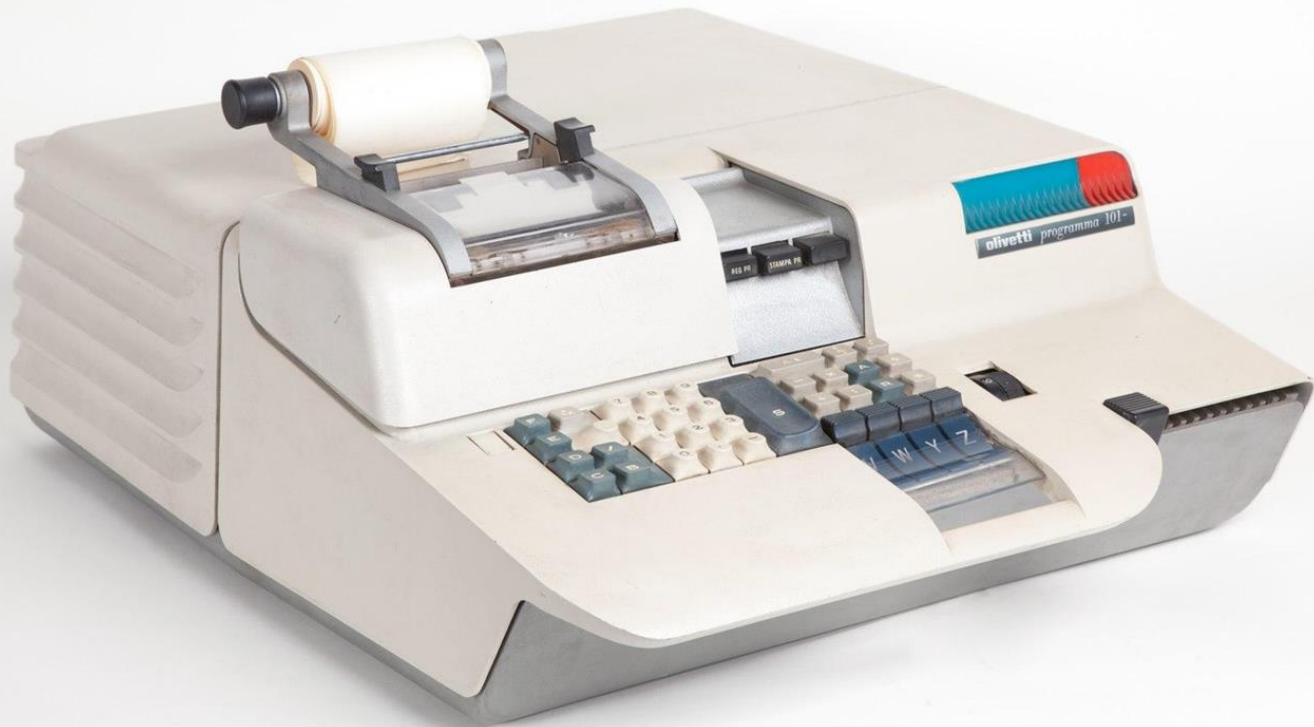
nathan@unitary.fund

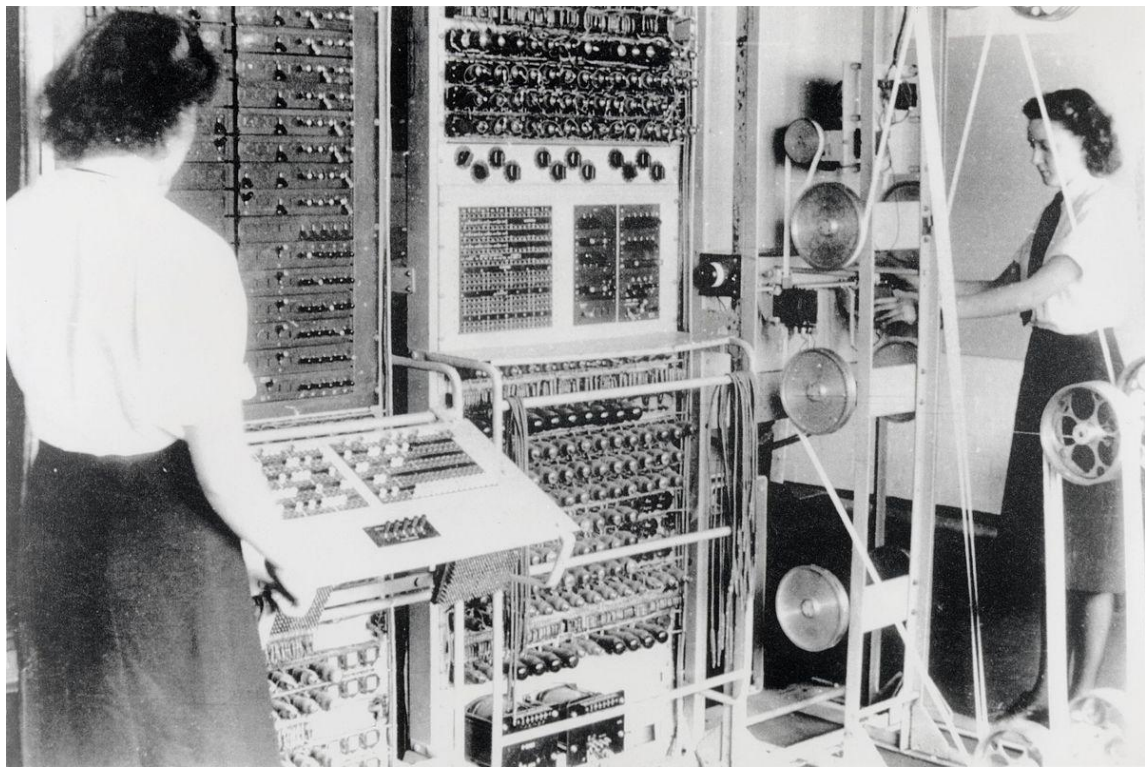


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27 febbraio 2024
Innovative Contamination Hub CSMT, Brescia



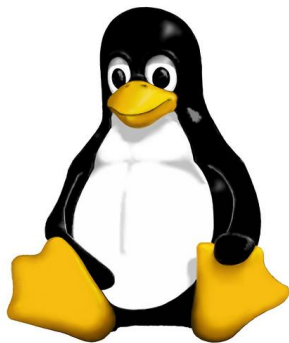






Sosteniamo lo Sviluppo di un
Ecosistema **Quantum Tech**
Aperto

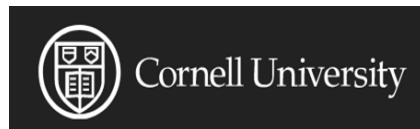
Open-Source: Scienza e Tecnologia



*"\$5Bn in contributed
development costs"*



*>56M wiki pages, 309
languages*



*Open-access archive for
>2M scholarly articles*

Micro-Grant per Progetti Bottom-Up

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- \$4,000 a progetto, senza vincoli
- 93 team finanziati da 26 Paesi
- 25+ pubblicazioni scientifiche
- 30+ librerie, 1200+ github stars
- 2 startup, 1 non-profit



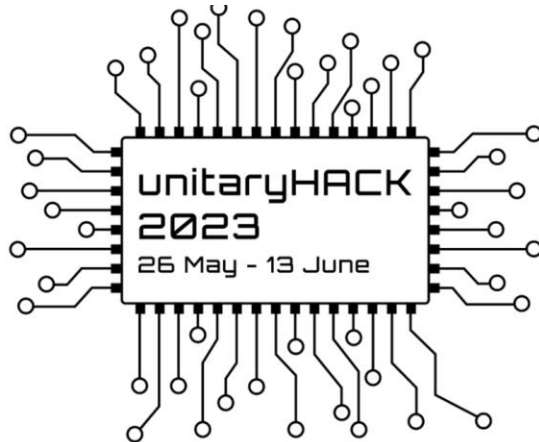
Qlasskit

A python-to-quantum compiler

Davide Gessa

Hackathon per l'ecosistema quantum open source

Hackers Projects Bounties
750 **30** **99**

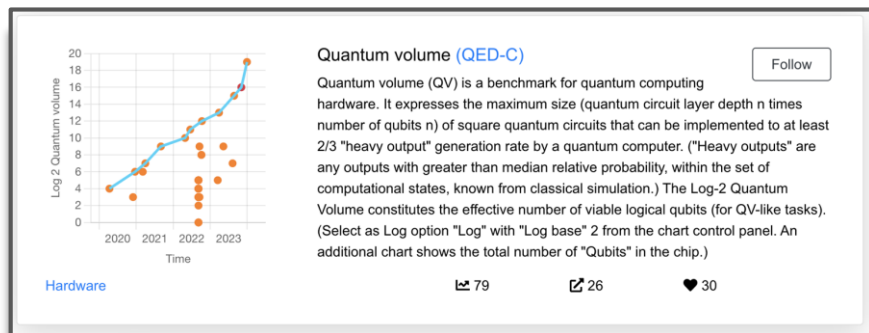


- Hackathon innovativo
- 750 “Cacciatori di taglie” hanno risolto problemi a sostegno di oltre 30 progetti

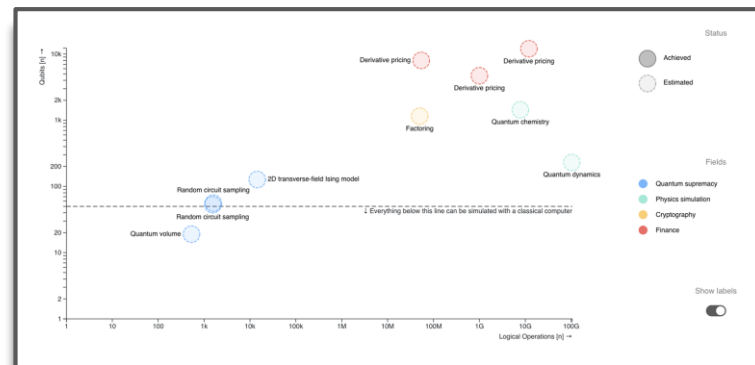
Misuriamo il Progresso in Quantum Computing



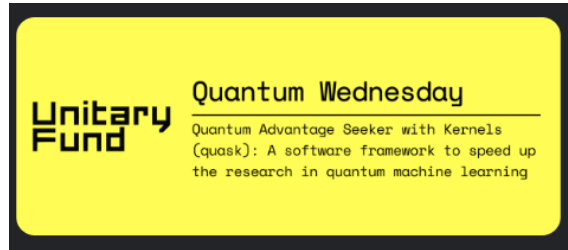
metriq.info



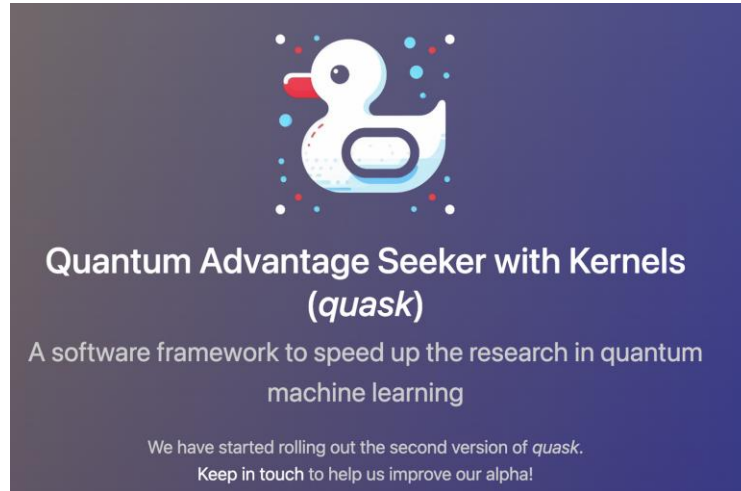
- Benchmark dello stato dell'arte in quantum computing
- Crowdsourcing dei risultati
- 2024: Comitato di esperti



La community del quantum software



- discord.unitary.fund
- 3000+ utenti



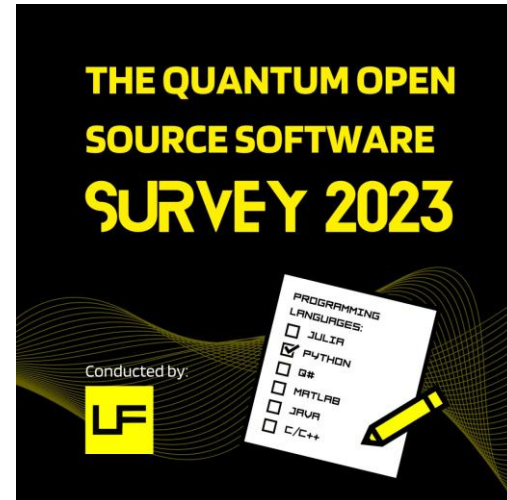
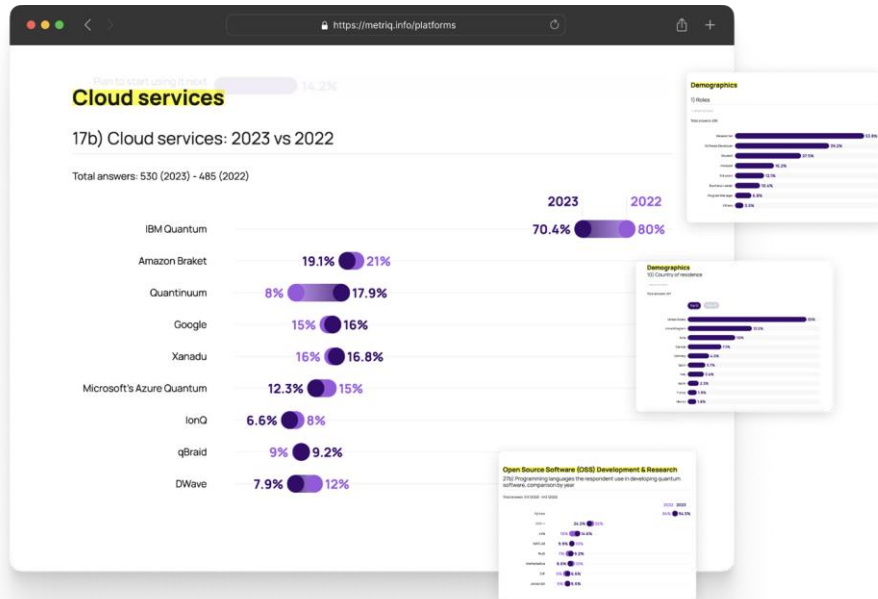
Il primo compilatore che **corregge** gli errori



unitary.fund/mitiq

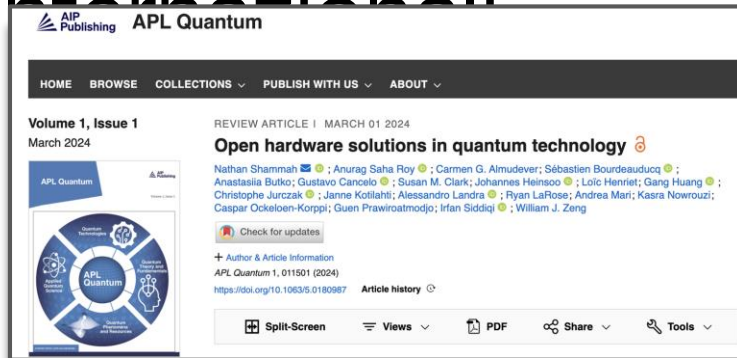
- Toolkit in Python per la mitigazione di errori in computer quantistici (QC)
- [x7](#) la performance di QC
- [>120,000](#) download, 65 contributors
- 10 articoli scientifici di Unitary Fund
- Usato a Harvard, IBM, U. A. Madrid, Yale, ...

Cosa pensano gli sviluppatori quantum?

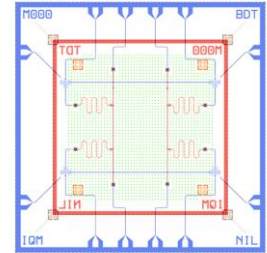
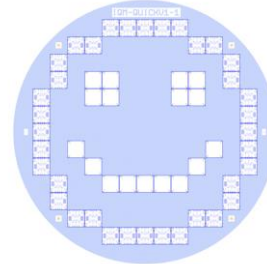


Ricerca e Sviluppo con Partner

Internazionali:



Oltre 20 articoli
scientifici
pubblicati dal
2020

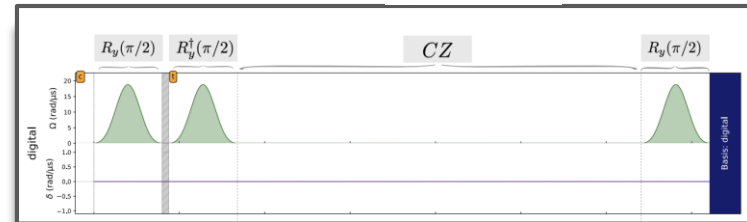


leap^w



Partner in progetti di ricerca su quantum
software

Pulser  PASQAL



Collaborazioni con realtà industriali e startup

Favoriamo l'ecosistema quantum in Italia

scientifica
venture capital

- Call For Ideas per Startup
- Primo workshop della community quantum developer, unitaryCON



Unitary Fund Members

Core members



Supporting members

agnostiq



qyber



Foundations



Altri supporter

- Alphabet X (formerly Google X)
- Atom Computing
- Boston Consulting Group
- Microsoft
- Cambridge Quantum Computing
- Classiq
- IQT Labs
- Rigetti
- Zapata Computing
- QCWare
- quantumcomputing.com
- QuEra
- Riverlane
- Xanadu
- Strangeworks
- PLOS
- Steve Willis & NYC Quantum Meetup
- EeroQ

Perché entrare nel network

- Technology Forecast
- Network & Partnerships
- Eccellenza Scientifica
- Community in Crescita